Most Likely Response Waves for Estimation of Extreme Value Ship Response Statistics

Fast and accurate methods for estimation of non-linear extreme value ship response statistics using 2D or 3D time-domain codes are of interest. The present study illustrates a new approach using Most Likely Response Waves (MLRW) to estimate the entire non-linear extreme response value distribution for a selected operational profile. The numerical results are performed for a Panmax containership using the non-linear time-domain sea-keeping code ShipStar, Xia et al. (1998).

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